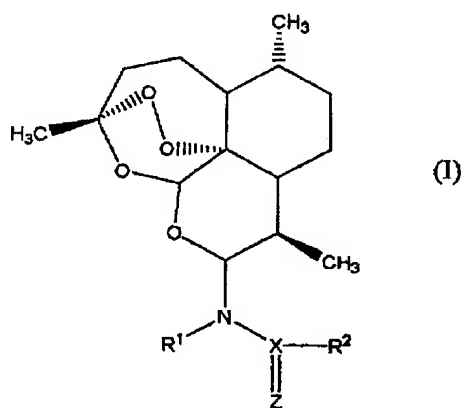


AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A compound of the formula I:



or a salt thereof, or a solvate thereof, or a solvate of a salt thereof,

in which

- R¹ represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group;
- X represents a carbon atom, a sulfur atom, a sulfoxide group S=O or a group PR³, P-O-R³ or P-N(R⁴)-R³ where R³ and R⁴ each independently represent a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group;

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Z represents an oxygen atom, a sulfur atom or a group NR^5 where R^5 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group; and

R² represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group, or a group $\text{N}(\text{R}^6)_2$, NHNH_2 , NR^6NHR^6 or $\text{NR}^6\text{N}(\text{R}^6)_2$, or a group OR^6 or SR^6 where each R^6 independently represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group, or a 10 α -dihydroartemisinin group, or R^2 represents a group OR^7 or NR^6R^7 where R^6 represents a group as defined above and R^7 represents a bond attached as a substituent to R^5 together with the group $-\text{X}=\text{Z}-$ forming an optionally substituted heterocyclic group where Z represents a group NR^5 , or R^7 represents a bond attached as a substituent to R^1 together with the group $-\text{N}-\text{X}(=\text{Z})-$ forming an optionally substituted heterocyclic pyranyl, piperidinyl, pyrrolidinyl, dioxanyl, piperazinyl, morpholinyl, thiomorpholinyl, morpholinylsulphonyl, tetrahydroisoquinolinyl or tetrahydrofuranlyl group.

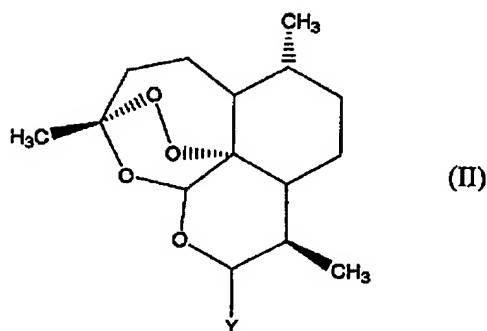
2. (Previously Presented) A compound according to claim 1 in which R^1 represents a hydrogen atom, a methyl group, ethyl group or longer straight-chain alkyl group or a branched alkyl group containing up to 9 carbon atoms.
3. (Previously Presented) A compound according to claim 1 in which X represents a carbon atom, a sulfur atom, or a group PR^3 , $\text{P}-\text{O}-\text{R}^3$ or $\text{P}-\text{N}(\text{R}^4)-\text{R}^3$ where R^3 and R^4 each independently represent a C_{6-18} aryl group or a 5- to 10-membered C-linked heteroaryl group or a 5- to 10-membered heterocyclyl- C_{1-6} alkyl group optionally substituted by one or more substituents selected from the group consisting of halogen atoms, hydroxyl, C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, amino, C_{1-4} alkylamino, di(C_{1-4} alkyl)amino and carboxyl groups.
4. (Previously Presented) A compound according to claim 1 in which Z

represents an oxygen atom, or a group NR^5 where R^5 represents a hydrogen atom, a methyl group, ethyl group or longer straight-chain alkyl group or branched alkyl group containing up to 9 carbon atoms or a C_{6-18} aryl group or a 5- to 10-membered C-linked heteroaryl group or a 5- to 10-membered heterocyclyl- C_{1-6} alkyl group optionally substituted by one or more substituents selected from the group consisting of halogen atoms, hydroxyl, C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, amino, C_{1-4} alkylamino, $\text{di}(\text{C}_{1-4}$ alkyl)amino and carboxyl groups.

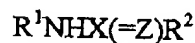
5. (Previously Presented) A compound according to claim 1 in which R^2 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group, or a group OR^6 , SR^6 , NH_2 , NHR^6 , or $\text{N}(\text{R}^6)_2$ where each R^6 independently represents a methyl group, ethyl group or longer straight-chain alkyl group or branched alkyl group containing up to 9 carbon atoms, or is a C_{6-18} aryl group or a 5- to 10-membered C-linked heteroaryl group or a 5- to 10-membered heterocyclyl- C_{1-6} alkyl group optionally substituted by one or more substituents selected from the group consisting of halogen atoms, hydroxyl, C_{1-4} alkyl, C_{2-4} alkenyl, C_{1-4} haloalkyl, C_{1-4} alkoxy, C_{1-4} haloalkoxy, amino, C_{1-4} alkylamino, $\text{di}(\text{C}_{1-4}$ alkyl)amino and carboxyl groups.
6. (Previously Presented) A compound according to claim 1 in which R^1 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group; X represents a carbon, phosphorus or sulfur atom; Z represents an oxygen atom or a group NR^5 in where R^5 represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group; and R^2 represents a group OR^6 , SR^6 , NH_2 , NHR^6 , or NH^2 , or $\text{N}(\text{R}^6)_2$ where each R^6 independently represents a hydrogen atom or an optionally substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl or aralkyl group, or a 10α -dihydroartemisinin group.
7. (Previously Presented) A compound according to claim 1 in which R^1 represents a hydrogen atom, X represents a sulfoxide group $\text{S}=\text{O}$, Z represents an oxygen atom, and

R^2 represents a group NH_2 , or in which R^1 represents a hydrogen atom, X represents a carbon atom, Z represents a group NH , and R^2 represents a group NHR^6 where R^6 represents a hydrogen atom or an optionally substituted alkyl, cycloalkyl, aryl or aralkyl group; or in which R^1 represents a hydrogen atom, X represents a carbon atom, Z represents an oxygen atom, and R^2 represents a group NHR^6 where R^6 is a hydrogen atom or an optionally substituted alkyl, cycloalkyl, aryl or aralkyl group.

8. (Currently Amended) A process for the preparation of a compound of the general formula I according to claim 1 which comprises reacting a compound of the formula II comprising an artemisinin nucleus:



in which Y represents a group comprising an oxygen atom attached to the carbon atom of the artemisinin nucleus and also to a hydrogen atom or trimethylsilyl group, with a suitable halogenating agent to form a compound of the formula II in which Y represents a halogen atom; and, if desired, reacting the compound of formula II in which Y represents a halogen atom with an amine of the formula:



where R^1 , R^2 , X and Z are as defined in claim 1 to form a compound of the formula I.

9. (Canceled.)

10. (Previously Presented) A pharmaceutical composition which comprises a carrier and a therapeutically effective amount of a compound according to claim 1.
11. (Canceled.)
12. (Canceled.)
13. (Previously Presented) A method for treating a disease caused by infection with a parasite which comprises administering to a host in need of such treatment a therapeutically effective amount of a compound according to claim 1.
14. (Previously Presented) A compound according to claim 2 in which R^1 represents a hydrogen atom, a methyl group or an ethyl group.
15. (Previously Presented) A compound according to claim 6 in which R^1 represents a hydrogen atom or an alkyl group; X represents a carbon or sulfur atom; Z represents an oxygen atom; R^6 represents a hydrogen atom or an optionally substituted alkyl or aryl group; or R^2 represents a group NH_2 or a group NHR^6 where R^6 represents an alkyl group, or a group $N(R^6)_2$ where R^6 represents identical or different alkyl groups.
16. (Previously Presented) A compound according to claim 15 in which R^1 represents a hydrogen atom or a methyl group or an ethyl group; or R^2 represents a group NH_2 or a group NHR^6 where R^6 represents an alkyl group, or a group $N(R^6)_2$ where R^6 represents identical or different alkyl groups.

CONDITIONAL PETITION FOR EXTENSION OF TIME

If entry and consideration of the amendments above requires an extension of time, Applicants respectfully request that this be considered a petition therefor. The Commissioner is authorized to charge any fee(s) due in this connection to Deposit Account No. 14-1263.

ADDITIONAL FEE

Please charge any insufficiency of fees, or credit any excess, to Deposit Account No. 14-1263.

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